

FITC anti-mouse CD192 (CCR2) Antibody

Catalog# / Size	150607 / 25 µg 150608 / 100 µg
Clone	SA203G11
Regulatory Status	RUO
Other Names	Ccr2, Ckr2, Ccr2a, Ccr2b
Isotype	Rat IgG2b, κ
Description	CD192, also known as CCR2, is a 42 kD G-protein coupled receptor that is associated with bone marrow homeostasis. Specifically, CD192 mediates monocyte chemotaxis and acts as a receptor for monocyte chemoattractant protein 1 (MCP-1). CD192 is primarily expressed on monocytes and macrophages, with some expression on basophils. It is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis and cancer.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CCR2 transfectants.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
Product Citations	<ol style="list-style-type: none">1. Rosina M, <i>et al.</i> 2022. Cell Metab. 34:533. PubMed2. Liu H, <i>et al.</i> 2022. Nat Commun. 13:6045. PubMed3. Sakamoto T, <i>et al.</i> 2021. Commun Biol. 4:1165. PubMed4. Sun G <i>et al.</i> 2018. Cell reports. 25(13):3786-3799. PubMed5. Glaubitz J, <i>et al.</i> 2022. Nat Commun. 13:4502. PubMed6. Hao Q, <i>et al.</i> 2022. Front Immunol. 13:1011922. PubMed7. Brummer G, <i>et al.</i> 2020. Oncogene. 39:2275. PubMed8. Zhu H, <i>et al.</i> 2021. Cell Metabolism. PubMed9. Unudurthi SD, <i>et al.</i> 2020. Life Sci. 117440:247. PubMed10. Ben-Yehuda H, <i>et al.</i> 2021. Mol Neurodegener. 16:39. PubMed11. Clemente C, <i>et al.</i> 2018. Nat Commun. 9:910. PubMed12. Howard ZM, <i>et al.</i> 2021. Am J Pathol. 191:730. PubMed13. Grisanti LA, <i>et al.</i> 2019. JCI Insight. 5. PubMed14. Wang Y, <i>et al.</i> 2019. Front Cell Infect Microbiol. 9:286. PubMed
RRID	AB_2616979 (BioLegend Cat. No. 150607) AB_2616980 (BioLegend Cat. No. 150608)

Antigen Details

Structure	G-protein-coupled receptor, 7-transmembrane protein, 42 kD.
Distribution	Monocytes/macrophages and basophils.
Function	Mediator of monocyte chemotaxis and bone marrow homeostasis.
Ligand/Receptor	MCP-1, Ccl2, Ccl7, and Ccl13.
Cell Type	Basophils, Macrophages, Monocytes
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Antigen References	1. Mack M, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:4697. 2. Dutta P, <i>et al.</i> 2015. <i>Cell Stem Cell.</i> 16:477. 3. Li L, <i>et al.</i> 2008. <i>Kidney Int.</i> 74:1526.
Gene ID	12772

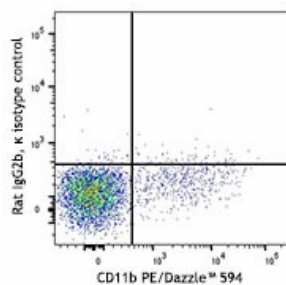
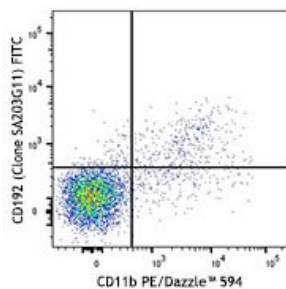
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Alexa Fluor® 647 anti-mouse CD192 (CCR2), Brilliant Violet 421™ anti-mouse CD192 (CCR2), PE anti-mouse CD192 (CCR2), PE/Cyanine7 anti-mouse CD192 (CCR2), FITC anti-mouse CD192 (CCR2), Brilliant Violet 605™ anti-mouse CD192 (CCR2), Brilliant Violet 650™ anti-mouse CD192 (CCR2), Brilliant Violet 785™ anti-mouse CD192 (CCR2), Brilliant Violet 510™ anti-mouse CD192 (CCR2), Biotin anti-mouse CD192 (CCR2), TotalSeq™-A0426 anti-mouse CD192 (CCR2), APC anti-mouse CD192 (CCR2), APC/Fire™ 750 anti-mouse CD192 (CCR2), TotalSeq™-B0426 anti-mouse CD192 (CCR2), TotalSeq™-C0426 anti-mouse CD192 (CCR2), PE/Cyanine5 anti-mouse CD192 (CCR2), PE/Dazzle™ 594 anti-mouse CD192 (CCR2), PE/Fire™ 640 anti-mouse CD192 (CCR2)

Product Data



C57BL/6 bone marrow was stained with Ly-6G APC, CD11b PE/Dazzle™ 594, and CD192 (clone SA203G11) FITC (top) or rat IgG2b, κ FITC isotype control (bottom). Dot plots are gated on Ly-6G⁻ cells.

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